

Amendment "A" page 2 of 10
10/602,357

DOCKET NO. 02-6301
81563 (6653)

Amendment to the Claims:

1 (original): A method of screening defects comprising steps of:

- (a) measuring a quiescent current at a first supply voltage for each of a plurality of devices;
- (b) measuring a quiescent current at a second supply voltage for each of the plurality of devices;
- (c) generating a plot of the quiescent current measured at the first supply voltage vs. the quiescent current measured at the second supply voltage for each of the plurality of devices;
- (d) determining a range of intrinsic variation of quiescent current in the plot; and
- (e) identifying any of the plurality of devices corresponding to a measurement plotted outside the range of intrinsic variation as defective.

2 (original): The method of Claim 1 wherein the second supply voltage has a value selected so that quiescent current of substantially all of the plurality of devices is within the range of intrinsic variation.

3 (original): The method of Claim 1 wherein the first supply voltage is a nominal supply voltage of the plurality of devices.

4 (original): The method of Claim 1 wherein the second supply voltage has a value selected in a sub-threshold voltage region of the plurality of devices.

5 (original): The method of Claim 1 wherein the

Amendment "A" page 3 of 10
10/602,357

DOCKET NO. 02-6301
81563 (6653)

quiescent current is measured at the first supply voltage or the second supply voltage for multiple stop points in a test pattern.

6 (original): The method of Claim 1 wherein the quiescent current is measured at the second supply voltage for only one stop point in a test pattern.

7 (original): A computer program product for screening defects comprising:

a medium for embodying a computer program for input to a computer; and

a computer program embodied in the medium for causing the computer to perform steps of:

- (a) measuring a quiescent current at a first supply voltage for each of a plurality of devices;
- (b) measuring a quiescent current at a second supply voltage for each of the plurality of devices;
- (c) generating a plot of the quiescent current measured at the first supply voltage vs. the quiescent current measured at the second supply voltage for each of the plurality of devices;
- (d) determining a range of intrinsic variation of quiescent current in the plot; and
- (e) identifying any of the plurality of devices corresponding to a measurement plotted outside the range of intrinsic variation as defective.

8 (original): The computer program product of Claim 7 wherein the second supply voltage has a value selected so that quiescent current of substantially all of the plurality of devices is within the range of intrinsic variation.

Amendment "A" page 4 of 10
10/602,357

DOCKET NO. 02-6301
81563 (6653)

9 (original): The computer program product of Claim 7 wherein the first supply voltage is a nominal supply voltage of the plurality of devices.

10 (original): The computer program product of Claim 7 wherein the second supply voltage has a value selected in a sub-threshold voltage region of the plurality of devices.

11 (original): The computer program product of Claim 7 wherein the quiescent current is measured at the first supply voltage or the second supply voltage for multiple stop points in a test pattern.

12 (original): The method of Claim 1 wherein the quiescent current is measured at the second supply voltage for only one stop point in a test pattern.

13 (new): The method of Claim 2 wherein the first supply voltage is a nominal supply voltage of the plurality of devices.

14 (new): The method of Claim 2 wherein the quiescent current is measured at the first supply voltage or the second supply voltage for multiple stop points in a test pattern.

15 (new): The computer program product of Claim 8 wherein the first supply voltage is a nominal supply voltage of the plurality of devices.

16 (new): The computer program product of Claim 8 wherein the quiescent current is measured at the first supply

Amendment "A" page 5 of 10
10/602,357

DOCKET NO. 02-6301
81563 (6653)

voltage or the second supply voltage for multiple stop points
in a test pattern.